

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/744,989

DATE: 03/06/2001
 TIME: 16:59:11

Input Set : A:\Fa0543-1.txt
 Output Set: N:\CRF3\03062001\I744989.raw

ENTERED

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1 <110> APPLICANT: Sumitomo Electric Industries, Co., Ltd.
W--> 2 <120> TITLE OF INVENTION: Artiodactyla epimorphin
W--> 3 <130> FILE REFERENCE: 99044M
C--> 4 <140> CURRENT APPLICATION NUMBER: US/09/744,989
C--> 4 <141> CURRENT FILING DATE: 2001-03-06
W--> 4 <160> NUMBER OF SEQ ID: 6
W--> 5 <210> SEQ ID NO: 1
6 <211> LENGTH: 287
7 <212> TYPE: PRT
8 <213> ORGANISM: Bos
W--> 9 <400> SEQUENCE: 1
10 Met Arg Asp Arg Leu Pro Asp Leu Thr Ala Cys Arg Lys Asn Asp Asp
11          5          10          15
12 Gly Asp Thr Thr Val Val Val Glu Lys Asp His Phe Met Asp Asp Phe
13          20          25          30
14 Phe His Gln Val Glu Glu Ile Arg Asn Ser Ile Ala Lys Ile Ala Gln
15          35          40          45
16 Tyr Val Glu Glu Val Lys Lys Asn His Ser Ile Ile Leu Ser Ala Pro
17          50          55          60
18 Asn Pro Glu Gly Lys Ile Lys Glu Glu Leu Glu Asp Leu Asn Lys Glu
19 65          70          75          80
20 Ile Lys Lys Thr Ala Asn Lys Ile Arg Thr Lys Leu Lys Ser Ile Glu
21          85          90          95
22 Gln Ser Phe Asp Gln Asp Glu Gly Gly Asn Arg Thr Ser Val Glu Leu
23          100         105         110
24 Arg Ile Arg Arg Thr Gln His Ser Val Leu Ser Arg Lys Phe Val Glu
25          115         120         125
26 Val Met Thr Glu Tyr Asn Glu Ala Gln Thr Leu Phe Arg Glu Arg Ser
27          130         135         140
28 Lys Gly Arg Ile Gln Arg Gln Leu Glu Ile Thr Gly Lys Thr Thr Thr
29 145         150         155         160
30 Asp Asp Glu Leu Glu Glu Met Leu Glu Ser Gly Asn Pro Ser Ile Phe
31          165         170         175
32 Thr Ser Asp Ile Ile Ser Asp Ser Gln Ile Thr Arg Gln Ala Leu Asn
33          180         185         190
34 Glu Ile Glu Ser Arg His Lys Asp Ile Met Lys Leu Glu Thr Ser Ile
35          195         200         205
36 Arg Glu Leu His Glu Met Phe Met Asp Met Ala Met Phe Val Glu Thr
37          210         215         220
38 Gln Gly Glu Met Ile Asn Asn Ile Glu Lys Asn Val Met Asn Ala Ala
39 225         230         235         240
40 Asp Tyr Val Glu His Ala Lys Glu Glu Thr Lys Lys Ala Ile Lys Tyr
41          245         250         255
42 Gln Ser Lys Ala Arg Arg Lys Met Met Phe Ile Ile Ile Cys Val Val
43          260         265         270
44 Ile Leu Leu Val Ile Leu Gly Ile Ile Leu Ala Thr Thr Leu Ser
45          275         280         285

```

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Input Set : A:\Fa0543-1.txt
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46 <210> SEQ ID NO: 2
47 <211> LENGTH: 864
48 <212> TYPE: DNA
49 <213> ORGANISM: Bos
W--> 50 <400> SEQUENCE: 2
C--> 51 atg cgg gac cgg ctg ccg gac ctg acg gcg tgt agg aaa aat gat gat      48
52 ggg gac aca act gtt gtt gtt gaa aag gac cat ttt atg gat gat ttc      96
53 ttc cat cag gtc gag gag atc aga aac agt ata gcg aaa ata gct cag     144
54 tat gtc gaa gaa gtg aag aaa aac cac agc atc att ctt tct gca cca     192
55 aac cca gaa gga aaa ata aag gaa gag ctt gaa gat ctg aac aaa gaa     240
56 atc aag aaa act gct aat aaa ata agg act aag ttg aag tct att gaa     288
57 cag agt ttt gat cag gat gag ggt gga aac cga act tct gtg gag ctt     336
58 cgg ata cga aga acc cag cat tca gtg cta tct cga aag ttt gtg gaa     384
59 gtc atg aca gaa tat aac gaa gca cag act ctg ttt cgg gag cga agc     432
60 aaa ggc cgt ata cag cgt cag cta gaa ata act gga aaa act acc acc     480
61 gat gat gag ctg gaa gag atg ctg gaa agt ggg aat ccc tcc atc ttc     528
62 acg tca gat att ata tca gat tca caa att act aga cag gct ctc aat     576
63 gaa att gag tcc cgt cat aaa gac atc atg aag ctg gag aca agc atc     624
64 cgt gag cta cat gag atg ttc atg gac atg gcc atg ttc gtc gag act     672
65 cag ggt gaa atg atc aac aac ata gaa aaa aat gtt atg aat gcc gca     720
66 gac tat gta gaa cat gca aaa gaa gaa acg aag aaa gct att aaa tat     768
67 caa agc aaa gca aga agg aaa atg atg ttc att att att tgt gta gtt     816
68 att ttg ctt gtg atc ctt gga att atc cta gca aca aca ttg tca tag     864
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 269
71 <212> TYPE: PRT
72 <213> ORGANISM: Bos
W--> 73 <400> SEQUENCE: 3
74 Met Arg Asp Arg Leu Pro Asp Leu Thr Ala Cys Arg Lys Asn Asp Asp
75           5           10           15
76 Gly Asp Thr Thr Val Val Val Glu Lys Asp His Phe Met Asp Asp Phe
77           20           25           30
78 Phe His Gln Val Glu Glu Ile Arg Asn Ser Ile Ala Lys Ile Ala Gln
79           35           40           45
80 Tyr Val Glu Glu Val Lys Lys Asn His Ser Ile Ile Leu Ser Ala Pro
81           50           55           60
82 Asn Pro Glu Gly Lys Ile Lys Glu Glu Leu Glu Asp Leu Asn Lys Glu
83           65           70           75           80
84 Ile Lys Lys Thr Ala Asn Lys Ile Arg Thr Lys Leu Lys Ser Ile Glu
85           85           90           95
86 Gln Ser Phe Asp Gln Asp Glu Gly Gly Asn Arg Thr Ser Val Glu Leu
87           100          105          110
88 Arg Ile Arg Arg Thr Gln His Ser Val Leu Ser Arg Lys Phe Val Glu
89           115          120          125
90 Val Met Thr Glu Tyr Asn Glu Ala Gln Thr Leu Phe Arg Glu Arg Ser
91           130          135          140
92 Lys Gly Arg Ile Gln Arg Gln Leu Glu Ile Thr Gly Lys Thr Thr Thr
93           145          150          155          160
94 Asp Asp Glu Leu Glu Glu Met Leu Glu Ser Gly Asn Pro Ser Ile Phe

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Input Set : A:\Fa0543~1.txt
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95          165          170          175
96 Thr Ser Asp Ile Ile Ser Asp Ser Gln Ile Thr Arg Gln Ala Leu Asn
97          180          185          190
98 Glu Ile Glu Ser Arg His Lys Asp Ile Met Lys Leu Glu Thr Ser Ile
99          195          200          205
100 Arg Glu Leu His Glu Met Phe Met Asp Met Ala Met Phe Val Glu Thr
101          210          215          220
102 Gln Gly Glu Met Ile Asn Asn Ile Glu Lys Asn Val Met Asn Ala Ala
103 225          230          235          240
104 Asp Tyr Val Glu His Ala Lys Glu Glu Thr Lys Lys Ala Ile Lys Tyr
105          245          250          255
106 Gln Ser Lys Ala Arg Arg Val Ser Leu Val Phe Gln Ser
107          260          265

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108 <210> SEQ ID NO: 4

109 <211> LENGTH: 810

110 <212> TYPE: DNA

111 <213> ORGANISM: Bos

W--> 112 <400> SEQUENCE: 4

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C--> 113 atg cgg gac cgg ctg ccg gac ctg acg gcg tgt agg aaa aat gat gat      48
114 ggg gac aca act gtt gtt gtt gaa aag gac cat ttt atg gat gat ttc      96
115 ttc cat cag gtc gag gag atc aga aac agt ata gcg aaa ata gct cag     144
116 tat gtc gaa gaa gtg aag aaa aac cac agc atc att ctt tct gca cca     192
117 aac cca gaa gga aaa ata aag gaa gag ctt gaa gat ctg aac aaa gaa     240
118 atc aag aaa act gct aat aaa ata agg act aag ttg aag tct att gaa     288
119 cag agt ttt gat cag gat gag ggt gga aac cga act tct gtg gag ctt     336
120 cgg ata cga aga acc cag cat tca gtg cta tct cga aag ttt gtg gaa     384
121 gtc atg aca gaa tat aac gaa gca cag act ctg ttt cgg gag cga agc     432
122 aaa ggc cgt ata cag cgt cag cta gaa ata act gga aaa act acc acc     480
123 gat gat gag ctg gaa gag atg ctg gaa agt ggg aat ccc tcc atc ttc     528
124 acg tca gat att ata tca gat tca caa att act aga cag gct ctc aat     576
125 gaa att gag tcc cgt cat aaa gac atc atg aag ctg gag aca agc atc     624
126 cgt gag cta cat gag atg ttc atg gac atg gcc atg ttc gtc gag act     672
127 cag ggt gaa atg atc aac aac ata gaa aaa aat gtt atg aat gcc gca     720
128 gac tat gta gaa cat gca aaa gaa gaa acg aag aaa gct att aaa tat     768
129 caa agc aaa gca aga agg gtg agt ttg gtc ttt cag agt tga           810

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130 <210> SEQ ID NO: 5

131 <211> LENGTH: 287

132 <212> TYPE: PRT

133 <213> ORGANISM: Ovis

W--> 134 <400> SEQUENCE: 5

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135 Met Arg Asp Arg Leu Pro Asp Leu Thr Ala Cys Arg Lys Asn Asp Asp
136 1          5          10          15
137 Gly Asp Thr Thr Val Val Val Glu Lys Asp His Phe Met Asp Asp Phe
138          20          25          30
139 Phe His Gln Val Glu Glu Ile Arg Asn Ser Ile Ala Lys Ile Ala Gln
140          35          40          45
141 Tyr Val Glu Glu Val Lys Lys Asn His Ser Ile Ile Leu Ser Ala Pro
142          50          55          60
143 Asn Pro Glu Gly Lys Ile Lys Glu Glu Leu Glu Asp Leu Asn Lys Glu

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Input Set : A:\Fa0543-1.txt

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```

144 65          70          75          80
145 Ile Lys Lys Thr Ala Asn Lys Ile Arg Thr Lys Leu Lys Ser Ile Glu
146          85          90          95
147 Gln Ser Phe Asp Gln Asp Glu Gly Gly Asn Arg Thr Ser Val Glu Leu
148          100          105          110
149 Arg Ile Arg Arg Thr Gln His Ser Val Leu Ser Arg Lys Phe Val Glu
150          115          120          125
151 Val Met Thr Glu Phe Asn Glu Ala Gln Thr Leu Phe Arg Glu Arg Ser
152          130          135          140
153 Lys Gly Arg Ile Gln Arg Gln Leu Glu Ile Thr Gly Lys Thr Thr Thr
154 145          150          155          160
155 Asp Asp Glu Leu Glu Glu Met Leu Glu Ser Gly Asn Pro Ser Ile Phe
156          165          170          175
157 Thr Ser Asp Ile Ile Ser Asp Ser Gln Ile Thr Arg Gln Ala Leu Asn
158          180          185          190
159 Glu Ile Glu Ser Arg His Lys Asp Ile Met Lys Leu Glu Thr Ser Ile
160          195          200          205
161 Arg Glu Leu His Glu Met Phe Met Asp Met Ala Met Phe Val Glu Thr
162          210          215          220
163 Gln Gly Glu Met Ile Asn Asn Ile Glu Lys Asn Val Thr Asn Ala Ala
164 225          230          235          240
165 Asp Tyr Val Glu His Ala Lys Glu Glu Thr Lys Lys Ala Ile Lys Tyr
166          245          250          255
167 Gln Ser Lys Ala Arg Arg Lys Met Met Phe Ile Ile Ile Cys Val Val
168          260          265          270
169 Ile Leu Leu Val Ile Phe Gly Ile Ile Leu Ala Thr Thr Leu Ser
170          275          280          285
171 <210> SEQ ID NO: 6
172 <211> LENGTH: 864
173 <212> TYPE: DNA
174 <213> ORGANISM: Ovis

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W--> 175 <400> SEQUENCE: 6

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C--> 176 atg cgg gac cgg ctg ccg gac ctg acg gcg tgt agg aaa aat gat gat      48
177 ggg gac aca act gtt gtt gtt gaa aag gac cat ttt atg gat gat ttc      96
178 ttc cat cag gtc gag gag atc aga aac agt ata gca aaa ata gct cag      144
179 tat gtc gaa gaa gtg aag aaa aac cac agc atc att ctt tct gca cca      192
180 aac cca gaa gga aaa ata aag gaa gag ctt gaa gat ctg aac aaa gaa      240
181 atc aag aaa act gcc aat aaa att cgg act aag ttg aag tct att gaa      288
182 cag agt ttt gat cag gat gag ggt gga aac cga act tct gtg gag ctt      336
183 cgg ata cga aga acc cag cat tca gtg cta tct cga aag ttt gtg gaa      384
184 gtc atg aca gaa ttt aat gaa gca cag act ctg ttt cgg gag cga agc      432
185 aaa ggc cgt ata cag cgt cag cta gaa ata act gga aaa act acc acc      480
186 gat gat gag ctg gaa gag atg ctg gaa agt ggg aat ccc tcc atc ttc      528
187 acg tca gat att ata tca gat tca caa atc act aga cag gct ctg aat      576
188 gaa att gag tcc cgt cat aaa gac atc atg aag ctg gag acg agc atc      624
189 cgt gag ctg cac gag atg ttc atg gac atg gcc atg ttc gtc gag acc      672
190 cag ggt gaa atg atc aac aac ata gaa aaa aat gtt acg aat gcc gca      720
191 gac tat gtt gag cat gct aaa gaa gaa acg aag aaa gcc att aaa tat      768
192 caa agc aaa gca aga agg aaa atg atg ttc att att atc tgt gta gtt      816

```

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Input Set : A:\Fa0543-1.txt
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193 att ttg ctt gtg atc ttt gga att atc cta gca aca aca ttg tca tag 864

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/744,989

DATE: 03/06/2001
TIME: 16:59:12

Input Set : A:\Fa0543-1.txt
Output Set: N:\CRF3\03062001\I744989.raw

L:2 M:283 W: Missing Blank Line separator, <120> field identifier
L:3 M:283 W: Missing Blank Line separator, <130> field identifier
L:4 M:270 C: Current Application Number differs, Replaced Current Application No
L:4 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:4 M:283 W: Missing Blank Line separator, <160> field identifier
L:5 M:283 W: Missing Blank Line separator, <210> field identifier
L:9 M:283 W: Missing Blank Line separator, <400> field identifier
L:50 M:283 W: Missing Blank Line separator, <400> field identifier
L:51 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=2
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:113 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=4
L:134 M:283 W: Missing Blank Line separator, <400> field identifier
L:175 M:283 W: Missing Blank Line separator, <400> field identifier
L:176 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=6